ACCESSING FINGERPRINT SENSOR USING FPGA DEVICES

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ABSTRACT

In order to realize fingerprint recognition system in real time environment, we describe in this paper signal controller to read fingerprint sensor generated in FPGA devices. Basically this signal is generated using state machine. The simulation result for behavioral simulation and signal generation read by logic analyzer are presented in this paper. Initialization and reading time for 76800 pixels are 50.99 mS. It is faster than fingerprint sensor using USB connection, which is more than 250 mS.

Keywords: cells, fingerprint sensor, FPGA., pixel-elements, state machine

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